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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In Re Application of

Hong Zhang et al.

Serial No.: 10/056,438

Filed: January 23, 2002

FOR: COMPUTER-AIDED IMAGE
ANALYSIS

Group
Art Unit: 2122

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Attention: Examiner

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APR 12 2002

Technology Center 2100

Dear Sir:

Applicant submits herewith references of which they are aware, they believe may be material to patentability of the invention disclosed and claimed in the above-cited application and with respect to which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on:

March 25, 2002

Eleanor M. Musick

(Typed Name)

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March 25, 2002

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Applicants submit herewith copies of the references which are set forth on the attached Form PT/SB/08A. As all relevant parts of the references are in the English language, no explanation of the references is provided herein.

This Information Disclosure Statement is submitted within three (3) months of the filing date of the above-cited application or of the date of entry into the national phase of the application or prior to the mailing date of a first Office Action thereon, whichever has occurred last, such that no fee is required.

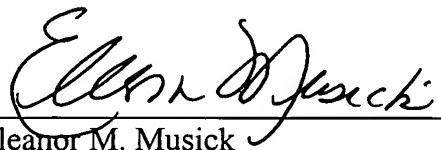
Further, while the references provided in this Information Disclosure Statement may be material to patentability pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any reference referred to herein is prior art for this invention unless specially designated as such.

Also, in accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

Respectfully submitted,

Dated: March 25, 2002

By:


Eleanor M. Musick
Attorney for Applicant
Registration No. 35,623

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Docket No. 02331-0302 (42286/267666)

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Complete if Known

Application Number	10/056,438
Filing Date	January 23, 2002
First Named Inventor	Hong Zhang et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	02331-0302 (42286/267666)

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Sheets: 2 of 8

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	B1	ADEL, M. et al. Quality Control of Mammographic Images: Automated Detection of Microcalcifications in Phantom Images, IWDM 2000, Fifth International Workshop on Digital Mammography, June 2000, p. 34.	
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	B6	FIELDS, S. et al. Analysis of Computer Extracted Features Related to Size of Micro-Calcifications: Correlation with Pathologic Diagnosis, IWDM 2000, Fifth International Workshop on Digital Mammography, June 2000, p. 41.	
	B7	FUKUOKA, D. et al. Automated Detection and Classification of Masses on Breast Ultrasonograms and its 3D Imaging Technique, IWDM 2000, Fifth International Workshop on Digital Mammography, June 2000, p. 42.	
	B8	GIGER, M.L. et al. Computerized Classification of Lesions on Digital Mammography, IWDM 2000, Fifth International Workshop on Digital Mammography, June 2000, p. 43.	
	B9	HAGIHARA, Y. et al. Accurate Detection of Microcalcifications on Mammograms by Improvement of Morphological Processing, IWDM 2000, Fifth International Workshop on Digital Mammography, June 2000, p. 44.	
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	B12	HOLMES, A.S. and TAYLOR, D.J. Computer-Aided Diagnosis: An Improved Metric Space for Pixel Signatures, IWDM 2000, Fifth International Workshop on Digital Mammography, June 2000, p. 49.	
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	B23	VELTHUIZEN, R.P. Computer Description of Mammographic Masses, IWDM 2000, Fifth International Workshop on Digital Mammography, June 2000, p. 74.	
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	B29	ZHOU, C. et al. Computerized image analysis: Estimation of breast density on mammograms, <i>medical imaging 2000: Image Processing</i> , Proc SPIE Vol. 3979 (2000), pp 1615 - 1624.	
	B30	SIVARAMAKRISHNA, R. et al. Comparing the Performance of Mammographic Enhancement Algorithms, <i>American Journal of Roentgenology</i> (2000), Vol 175, pp 45 - 51.	
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	B34	ABDOLMALEKI, P. et al. Neural network analysis of breast cancer from MRI findings, <i>Radiat. Med.</i> , Sept. - October 1997, Vol. 15 No. 5, pp 283 - 293.	
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	B55	KOVALERCHUK, B. et al. Fuzzy logic in computer-aided breast cancer diagnosis: analysis of lobulation, <i>Artif. Intell. Med.</i> , September 1997, Vol. 11, No. 1, pp 75 – 85.	
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	B60	PANTAZOPOULOS, D. et al. Back propagation neural network in the discrimination of benign from malignant lower urinary tract lesions, <i>J. Urol.</i> , May 1998, Vol. 159, No. 5, pp 1619 – 1623.	
	B61	PATRICK, E.A. et al. Expert learning system network for diagnosis of breast calcifications, <i>Invest. Radiol.</i> , June 1991, Vol. 26, No. 6, pp 534 – 539.	
	B62	PAVLOPOULOS, S. et al. Fuzzy neural network-based texture analysis of ultrasonic images, <i>IEEE Eng. Med. Biol. Mag.</i> , January-February 2000, Vol. 19, No. 1, pp 39 – 47.	
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	B65	VAN TONDER, G.J. and EJIMA, Y. The patchwork engine: image segmentation from shape symmetries, <i>Neural Netw.</i> , April 2000, Vol. 13, No. 3, pp 291 – 303.	

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